

## Roland VR-4HD 4-Channel HD AV Mixer with USB Stream/Record

VIDEO	
Processing	4:2:2 (Y/Pb/Pr), 8-bit
Input Connectors	<p>INPUT 1-3: HDMI Type A (19 pins) x 3 * HDCP Supported</p> <p>INPUT 4: HDMI Type A (19 pins) x 1 * HDCP Supported</p> <p>RGB/COMPONENT (Mini D-sub 15-pin type) x 1 COMPOSITE (RCA phono type) x 1 * INPUT 4: HDMI , RGB/COMPONENT or COMPOSITE selected.</p>
Output Connectors	<p>MAIN OUT: HDMI Type A (19 pins) x 1 * HDCP Supported</p> <p>RGB/COMPONENT (Mini D-sub 15-pin type) x 1</p> <p>PREVIEW OUT: HDMI Type A (19 pins) x 1 * HDCP Supported</p> <p>USB3.0: USB B type x 1</p>
Input formats	<p>HDMI INPUT 1-3: 720/59.94p, 720/50p (SYSTEM FORMAT: 720p) 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p (SYSTEM FORMAT: 1080i, 1080p)</p> <p>INPUT 4: HDMI, RGB/COMPONENT: 480/59.94i, 576/50i, 480/59.94p, 576/50p 720/59.94p, 720/50p, 1080/59.94i, 1080/50i 1080/59.94p, 1080/50p</p> <p>VGA (640 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz) WXGA (1280 x 768/60 Hz), SXGA (1280 x 1024/60 Hz) FWXGA (1366 x 768/60 Hz), SXGA+ (1400 x 1050/60 Hz) UXGA (1600 x 1200/60 Hz) , WUXGA (1920 x 1200/60 Hz)</p> <p>COMPOSITE: 480/59.94i, 576/50i * The refresh rate is the maximum value of each resolution. * Conforms to VESA DMT Version 1.0 Revision 11. * 1920 x 1200/60 Hz: Reduced blanking * The input interlaced video signal is converted to progressive video signal by internal processing. * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz).</p>
Output formats	<p>MAIN OUT (HDMI, RGB/COMPONENT): 480/59.94i, 576/50i, 480/59.94p, 576/50p 720/59.94p, 720/50p, 1080/59.94i, 1080/50i 1080/59.94p, 1080/50p</p> <p>VGA (640 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz) WXGA (1280 x 768/60 Hz), SXGA (1280 x 1024/60 Hz) FWXGA (1366 x 768/60 Hz), SXGA+ (1400 x 1050/60 Hz) UXGA (1600 x 1200/60 Hz) , WUXGA (1920 x 1200/60 Hz)</p> <p>PREVIEW OUT: 720/59.94p, 720/50p (SYSTEM FORMAT: 720p) 1080/59.94i, 1080/50i (SYSTEM FORMAT: 1080i) 1080/59.94p, 1080/50p (SYSTEM FORMAT: 1080p)</p> <p>USB3.0: 720/29.97p, 720/25p (SYSTEM FORMAT: 720p) 1080/29.97p, 1080/25p (SYSTEM FORMAT: 1080i, 1080p) * The MAIN OUTPUT format of HDMI and RGB/COMPONENT is always the same. When an interlaced format is selected, component signal is output from the RGB/COMPONENT connector. When a non-interlaced format is selected, RGB signal is output from the RGB/COMPONENT connector. * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz).</p>
Video Effects	<p>Transition: CUT, MIX (DISSOLVE/FAM/NAM/MOSAIC), WIPE (30 types) Effects: NEGATIVE, EMBOSS, COLORIZE, COLORPASS, POSTERIZE, SILHOUETTE, MONOCOLOR, FINDEDGE (8 types) Composition: PinP, SPLIT, QUAD, KEY (Luminance Key, Chroma Key)</p>
AUDIO	
Audio Processing	Sampling rate: 24 bits/48 kHz
Audio formats	<p>HDMI: Linear PCM, 24 bits/48 kHz, 2 ch USB: Linear PCM, 16 bits/48 kHz, 2 ch</p>

Input Connectors	AUDIO IN 1-4 (XLR/TRS combo type, phantom power) AUDIO IN 5-6 (RCA phono type) AUDIO IN 7/8 (Stereo miniature type) USB B type (stereo)
Phantom Power	DC 48 V (unloaded maximum), 10 mA (maximum load) * Current value per channel
Output Connectors	AUDIO OUT: L, R (XLR type) L, R (RCA phono type)  AUX OUT: L, R (RCA phono type)  USB: USB B type (stereo)  PHONES: Stereo miniature type
Signal Level and Impedance	XLR/TRS combo type Input Signal Level : -60--+4 dBu (Maximum: +22 dBu) Input Impedance : 10 k ohms (GAIN 0--23 dB), 5 k ohms (GAIN 24--64 dB) RCA phono type Input Signal Level : -10 dBu (Maximum: +8 dBu) Input Impedance : 15 k ohms Output Signal Level : -10 dBu (Maximum: +8 dBu) Output Impedance : 1 k ohm XLR type Output Signal Level : +4 dBu (Maximum: +22 dBu) Output Impedance : 600 ohms Miniature type Input Signal Level : -15 dBu (Maximum: +3 dBu) Input Impedance : 15 k ohms Headphones Output Signal Level : 75 mW + 75 mW Output Impedance : 32 ohms
Audio Effects	Auto Mixing, Echo Cancel, EQ, Delay, Compressor, HPF, Gate, Reverb, Multi-Band Compressor, Limiter
OTHERS	
Other Connectors	RS-232: D-sub 9-pin type Tally/GPIO: Mini D-sub 15-pin type USB 3.0/2.0 (device): USB B type, USB-VIDEO (Super-Speed), USB-AUDIO 2 IN/2 OUT (Full-Speed), remote control from PC
Display	Graphic Color LCD, 320 x 240 dots, touch panel
Other Functions	MEMORY (8 types) FREEZE (input video captured) OUTPUT FADE (Audio, Video: WHITE or BLACK)
Power Supply	AC Adaptor
Current Draw	3 A
Power Consumption	36 W
Operation Temperature	+0 to +40 degrees Celsius +32 to +104 degrees Fahrenheit
Dimensions	339 (W) x 217 (D) x 87 (H) mm 13-3/8 (W) x 8-9/16 (D) x 3-7/16 (H) inches
Weight (excluding AC adaptor)	2.4 kg 5 lbs 5 oz
Accessories	Owner's manual AC adaptor Power cord
Notes	* 0 dBu=0.775 Vrms